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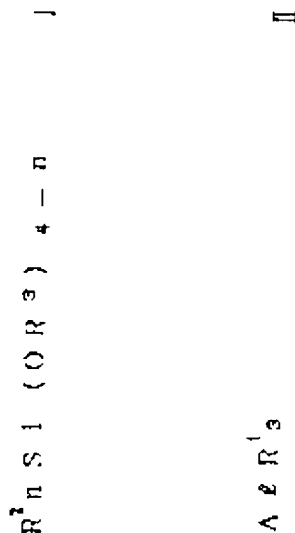
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(54) PREPARATION OF CATALYST FOR POLYMERIZATION OF ALPHA-OLEFIN

(57)Abstract:

PURPOSE: To obtain the titled catalyst of a high polymerization activity, by contacting a specified solid catalyst component with an organoaluminum compound and a silicon compound.

CONSTITUTION: A solid reaction product is obtained by reacting a titanium tetrahalide (e.g., $TiCl_4$) and an aromatic polycarboxylic acid ester (e.g., monomethyl phthalate) with a carrier obtained by reacting a Grignard compound (e.g., methylmagnesium chloride) with a reaction product between a magnesium halide (e.g., $AlCl_3$) and a silicon compound of formula I (wherein R_2W_3 are each a hydrocarbon group). The obtained solid is reacted with a titanium tetrahalide to obtain a solid catalyst component (A). Component A is contacted with an organoaluminum compound (B) of formula II (wherein R_1 is a $1W_8C$ alkyl) and a silicon compound (C) of formula I at $20^\circ C$ or below for 5secW60min in the presence (absence) of an inert organic solvent.



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